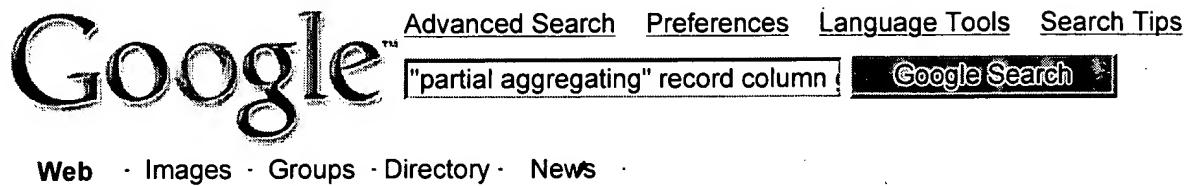


L Number	Hits	Search Text	DB	Time stamp
1	1660	(aggregat\$3 with records)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/22 11:47
2	3427	(707/3).ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/22 11:47
3	1557	(707/2).ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/22 11:47
4	85	((aggregat\$3 with records)) and ((707/3).ccls.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/22 11:47
5	47	((aggregat\$3 with records)) and ((707/2).ccls.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/22 11:47
6	21	((707/2).ccls.) and (((aggregat\$3 with records)) and ((707/3).ccls.))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/22 11:47
7	6	@pd<20000630 and (((707/2).ccls.) and ((aggregat\$3 with records)) and ((707/3).ccls.))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/22 11:59
8	6	@pd<20000630 and (((707/2).ccls.) and ((aggregat\$3 with records)) and ((707/3).ccls.)) and group\$ and similar\$	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/22 11:58
9	740	(partial\$ with aggregat\$3) and record\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/22 11:59
10	332	@pd<20000630 and ((partial\$ with aggregat\$3) and record\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/22 11:59
11	12	((aggregat\$3 with records)) and (@pd<20000630 and ((partial\$ with aggregat\$3) and record\$3))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/22 11:59



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1 Orthogonal optimization of subqueries and aggregation 77%

César Galindo-Legaria , Milind Joshi

ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data May 2001

Volume 30 Issue 2

There is considerable overlap between strategies proposed for subquery evaluation, and those for grouping and aggregation. In this paper we show how a number of small, independent primitives generate a rich set of efficient execution strategies —covering standard proposals for subquery evaluation suggested in earlier literature. These small primitives fall into two main, orthogonal areas: Correlation removal, and efficient processing of outerjoins and GroupBy. An optimization approach b ...

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